

## WEST Search History

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DATE: Monday, April 05, 2004

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		<i>DB=USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L4	6348314.pn.	1
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L3	L2 and pRNA or pyranosyl adj3 RNA	35
<input type="checkbox"/>	L2	L1 and supramolecular	637
<input type="checkbox"/>	L1	array or chip or microchip	1193904

END OF SEARCH HISTORY

=> s supramolecular  
L1 7668 SUPRAMOLECULAR

=> s l1 and p-RNA  
2151669 P  
263309 RNA  
499 P-RNA  
(P(W) RNA)  
L2 0 L1 AND P-RNA

=> s l1 and pyranosyl(2w)RNA  
474 PYRANOSYL  
263309 RNA  
24 PYRANOSYL(2W) RNA  
L3 0 L1 AND PYRANOSYL(2W) RNA

=> s l1 and array or chip or microchip  
71609 ARRAY  
34397 CHIP  
1851 MICROCHIP  
L4 35824 L1 AND ARRAY OR CHIP OR MICROCHIP

=> s l4 and pRNA  
127 PRNA  
L5 1 L4 AND PRNA

=> d l5 ti au so py ab

L5 ANSWER 1 OF 1 CA COPYRIGHT 2004 ACS on STN  
TI Sorting and immobilization system for nucleic acids using synthetic  
binding systems  
IN Schweitzer, Markus; Anderson, Richard; Fiechtner, Michael; Mueller-ibeler,  
Jochen; Raddatz, Stefan; Bruecher, Christoph; Windhab, Norbert; Orwick,  
Jill; Schneider, Eberhard; Pignot, Marc; Kienle, Stefan  
SO PCT Int. Appl., 232 pp.  
CODEN: PIXXD2  
PY 2003  
2003  
2003  
AB The present invention relates to conjugates of synthetic binding units  
(SBUs) and nucleic acids. The nucleic acids may be DNA, RNA, peptide  
nucleic acids, locked nucleic acids, nucleic acid analogs such as  
2'-fluoro-DNA and 2'-O-methyl-RNA, aptamers, and aptazymes. The SBUs are  
pentopyranosyl nucleic acids (pDNA and **pRNA**) or  
cyclohexylnucleooligoamides (CNA). The present invention also relates to  
methods for sorting and immobilizing nucleic acids on support materials  
using such conjugates by specific mol. addressing of the nucleic acids  
mediated by the synthetic binding systems. Particularly, the present  
invention also relates to novel methods of utilizing conjugates of  
synthetic binding units and nucleic acids to in active electronic  
**array** systems to produce novel **array** constructs from the  
conjugates, and the use of such constructs in various nucleic acid assay  
formats. In addition, the present invention relates to various novel forms  
of such conjugates, improved methods of making solid phase synthesized  
conjugates, and improved methods of conjugating pre-synthesized synthetic  
binding units and nucleic acids. The present invention also relates to  
the use of conjugates of synthetic binding units and nucleic acids as  
substrates for various enzymic reactions, including nucleic acid  
amplification reactions. Thus, oligonucleotide amplification primers were  
conjugated to **pRNA** via a phosphodiester linkage or via a  
reaction of a terminal hydrazide with a terminal oxidized cis-diol group.  
These were then immobilized on electronically addressable microchips  
containing complementary **pRNA**. The immobilized primers were used in